



Silvana Andric
CV & Bibliography
(November 27, 2022.)



Professor (<https://www.researchgate.net/profile/Silvana-Andric>)

Head and founder of the Accredited Center of Excellence for Reproductive Endocrinology and Signaling (CeRES) (<https://ceres.pmf.uns.ac.rs/>)

Head of the Laboratory for Reproductive Endocrinology and Signaling (LaRES)

(<http://wwwold.dbe.pmf.uns.ac.rs/en/nauka-eng/lares>; <https://www.dbe.uns.ac.rs/nauka/laboratorije/lares/> see: Галерија)

Head of the Mito-REBELS group (<https://mito-rebels.pmf.uns.ac.rs/mito-rebels-eng/>)

Member of the Laboratory for Chronobiology and Aging (ChronAge)

(<https://www.dbe.uns.ac.rs/nauka/laboratorije/chronage/> see: Галерија)

LaRES & ChronAge, CeRES, Animal Physiology, DBE, Faculty of Science, University of Novi Sad

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Date and Place of Birth: November 15, 1968; Novi Sad, Yugoslavia

Education

- 1992 BSc, Biology, General; Faculty of Sciences, University of Novi Sad (UNS)
- 1995 MSc, Biochemistry; Faculty of Sciences, Novi Sad, University of Novi Sad (UNS)
- 1999 PhD, Reproductive Endocrinology; Faculty of Sciences, Novi Sad, University of Novi Sad (UNS)
- 2005 Post-doc, Cell Signaling; SCS, ERB, NICHD, NIH, Bethesda, MD, USA.

Career

- 1992 – 1994 Researcher and Laboratory-Teaching Assistant; Faculty of Sciences UNS
- 1995 – 1999 Researcher and Teaching Assistant; Faculty of Sciences UNS
- 2000 – 2004 Assistant Professor, Section on Animal Physiology, Faculty of Sciences UNS
- 2001 – 2004 Visiting fellow, Section on Cellular Signaling, ERB, NICHD, NIH
- 2005 – June 2009 Associate Professor, Section on Animal Physiology, Faculty of Sciences UNS
- July 2009 – pres. Full Professor, Section on Animal Physiology, Faculty of Sciences UNS

Study visits

- 1998 (July): *Summer Program* – University of Illinois at Urbana Champaign, College of Veterinary & Medicine.
- 1998 (August): *Visiting Scientist* - SCS, ERB, NICHD, NIH, Bethesda, MD, USA.
- 1999 (April - September): *Visiting Scientist* - SCS, ERB, NICHD, NIH, Bethesda, MD, USA.
- 2000 (June - September): *Visiting Scientist* - SCS, ERB, NICHD, NIH, Bethesda, MD, USA.
- 06/10/2001 – 10/01/2004: *Visiting Fellow* - SCS, ERB, NICHD, NIH, Bethesda, MD, USA. Award Number VFYX003352. Exchange visitor program number G-3-0036.
- Summer 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2018, 2019 - *Visiting Scientist* - NICHD, NIH, USA.

Certify Courses

- 2001 NIH-CTP-Laboratory Animal Care and Handling
- 2001 NIH-CTP-Radiation Safety
- 2001 NIH-FAES-TRAC12: Transgenic Technology
- 2003 NIH-FAES-TRAC30: siRNA & Functional Genomics
- 2004 NIH-NLM-NCBI: Exploring 3D Molecular Structures
- 2004 NIH-NLM-NCBI: A field Guide to GenBank
- 2004 NIH-NLM-NCBI: BLAST & LocusLink
- 2004 Confocal Microscopy Course held by Carl Zeiss Int (Germany), University of Belgrade
- 2005 ECTS Course organized by World University Service (WUS) Austria
- 2007 ECTS Course organized by World University Service (WUS) Austria

Languages: Serbian (mother tongue) English, Russian, Slovenian, Croatian, Slovakian

Honors and Awards:

- 1988-1992 University of Novi Sad: Scholarship for Outstanding Students
- 1989, 1992 University of Novi Sad: Rector's Prize for Successful Studies
- 1992-1995 Yugoslav Ministry of Science: Scholarship for Graduated Studies
- 1996 ICN - Galenika Award for one of the three the best MSc. Thesis in the past year
- 1999 Soros Foundation Travel Award
- 2000 Elected as the best professor by students of biology
- 2000 Member of Young Generation of European Academy of Sciences and Arts.
- 2004 American Society of Biochemistry and Molecular Biology Travel Award
- 2004 International Society of Endocrinology Travel Award
- 2004 First Award for publications (2002-2004) funded by Serbian Ministry of Science
- 2009 Award funded by Serbian Ministry of Science

Professional Societies:

- 2000 – present Young Generation of the European Academy of Sciences and Arts
- 2003 – present FEBS
- 2002– present Women in Endocrinology
- 2012 – present Serbian Physiological Society
- 2012 – present Serbian Biology Society
- 2013 – present Serbian Society for Mitochondrial and Free Radicals Physiology
- 2015 – present Serbian Molecular Biology Society
- 2017 – present Society for Study of the Reproduction

Teaching Experiences:

Lab Courses: Biochemistry, General Physiology, Comparative Animal Physiology, Endocrinology, Reproductive Physiology, Reproductive Endocrinology, Molecular Endocrinology.

Lecturer: Basic Physiology, Animal Physiology, Comparative Animal Physiology, Molecular & Cellular Physiology, Reproductive Physiology, Experimental Physiology, Reproductive Endocrinology, Mechanisms of Cell Communication, Endocrinology, Neuroendocrinology, Basic Molecular & Cellular Immunology, Molecular Mechanisms of Mitochondrial Biogenesis Regulation, Molecular Mechanisms Regulating Testicular Function.

Mentoring

Post-doctoral candidates: **2**

PhD candidates: **9** (4 completed)

Master candidates: **59** (52 completed)

Diploma candidates: **62** (58 completed)

Literature for teaching (in Serbian):

- (1) **Andric S** & Kostic T (2007): Mechanisms of Cell Communication. *Ed. World University Service (WUS) Austria.*
- (2) Kostic T & **Andric S** (2007): Molecular and Cellular Immunology. *Ed. World University Service (WUS) Austria.*
- (3) **Andric S**, Kostic T, Andric N & Zoric S (2005): Comparative Animal Physiology. *Ed. World University Service (WUS) Austria.*
- (4) Matavulj M, Kostic T & **Andric S** (2005): Endocrinology. *Ed. World University Service (WUS) Austria.*
- (5) Kovacevic R, Kostic T, **Andric S** & Zoric S (2005): General Animal Physiology. *Ed. World University Service (WUS) Austria.*
- (6) Kovacevic R, Kostic T & **Andric S** (1997): Handbook of General Animal Physiology. *Ed. University of Novi Sad.*

Involvement in the work of Gymnasium "Jovan Jovanovic Zmaj" (Novi Sad, Serbia; since 2018)

Coordinator and co-mentor of the experimental part of the Internal Assessment (13 students) and Extended Essay (2 students) for International Baccalaureate, Biology Diploma Program, Standard Level. Coordinator and co-mentor of the experimental part of the graduate thesis of the students.

Involvement in the work of Petnica Research Center (since 2015)

Seminars and lectures for the participants of biomedical program as well as mentoring of the small research projects.

Research area: cellular signaling, mitochondrial dynamics, reproductive biology, endocrinology, stress, aging, biological clock, molecular basis of male (in)fertility

Publications: 74 peer-review papers; citation index (source SCOPUS): 1599 (self citations excluded with h-index 23)

The expert reviewer: Horizon2020; ConexPlus (Spain), Czech Science Foundation (Czech Republic), ParisRegion-FP, AKOKVO (Montenegro), National accreditation body and National Project for Graduation (Ministry of Science, Education and Technological Development Republic of Serbia), as well as for 25 research journals.

RESEARCH AND EDUCATION GRANTS

Ongoing Research Grants

APV2708 Kostic T (PI) 01/06/2021 – 31/05/2024

APV Province Committee for Education, Science and Technological Development

Project: *"Can lifestyle cause a decrease in male fertility?"*

Role: Principal Investigator

EU4TechPOC-1593008532-020 Andric S (PI) 01/09/2020 – 31/12/2022

European Union EUTech4PoC

Project: *"Mito-Fert-Signature: a new prognostic/diagnostic tool to detect male (in) fertility using mitochondrial markers in spermatozoa"*

Role: Principal Investigator

Serbian Academy of Sciences – Academy of Sciences of the Czech Republic Andric S (PI) 01/01/2020 – 31/12/2024

Project: *"The CNG channels in Leydig cell – identification, characterization and functional coupling to testosterone production"*

Role: Principal Investigator from Serbia

ON173057 01/01/2011 – 31/12/2026

Ministry of Education, Science and Technological Development

Project: *"Molecular mechanisms and signal transduction pathways involved in regulation of steroidogenesis and adaptation of Leydig cells to disturbed homeostasis"*

Role: Principal Investigator

COST CA20119: ANDRONET-European andrology network– research coordination, education, and public awareness 2021-2025
(<https://www.cost.eu/actions/CA20119/>).

Role: MC from Serbia

COST CA18124: ESMN- European Sexual Medicine Network 2021-2025
(<https://www.cost.eu/actions/CA18124/>)

Role: Investigator.

COST Action: CA18133 "ERNEST-European research network on signal transduction" 2019-2023
(<https://www.cost.eu/actions/CA18133/>)

Role: MC from Serbia

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APV2856 Andric S (PI) 01/06/2016 – 31/05/2021
APV Province Committee for Education, Science and Technological Development
Project: *"Are the reproductive hormones linking point between stress, metabolic syndrome and aging?"*
Role: Principal Investigator

Bilateral cooperation Serbia-Slovenia Andric S (PI) 01/01/2016 – 31/12/2017
Project: *“Long-term effects of stress on development of male sexual behavior and steroidogenesis and mitochondrial signalosome in testis”*

FNS SNFS IZ73Z0_128070 Nef S, Andric S (PIs) 01/12/2009 – 31/11/2012
Swiss National Science Foundation (SNSF) SCOPES Eastern Europe program
Project: "Investigating the role of the insulin receptor family in regulating testicular steroidogenesis"
Role: Principal Investigator from Serbian part

Bilateral cooperation Serbia-Slovenia	Kostic T (PI)	01/01/2014 – 31/12/2015
Ministry of Science Republic of Serbia		
Project:	<i>“Synchronization of the Leydig cell circadian timing system: coupling cAMP signaling to clock”</i>	
Role:	Co-Investigator	

Bilateral cooperation Serbia-Slovenia Andric S (PI) 01/01/2010 – 31/12/2011
Ministry of Science Republic of Serbia
Project: *“Evaluation of Leydig-cell-specific knockout of Cyp51 gene function on spermatogenesis and steroidogenesis”*

APV970 Andric S (PI) 01/06/2011 – 31/12/2015
 APV Province Committee for Science and Technology
 Project: *“Signaling pathways and molecular mechanisms involved in maintenance of sex steroids homeostasis”*

APV02530 Andric S (PI) 01/06/2006 – 31/12/2010
 APV Province Committee for Science and Technology
Project: "Molecular physiology of Leydig cells in response to stress"

ON143055	Kostic T (PI)	01/01/2006 – 31/12/2010
Ministry of Education, Science and Technological Development		
Project: <i>“No-cGMP related mechanisms in regulation of Leydig cell steroidogenesis”</i>		
Role: Co-Investigator		

COST Action: CA15203 “MITOEAGLE-Mitochondrial mapping: Evolution - Age - Gender - Lifestyle - Environment” 2018-2021
(http://www.cost.eu/COST_Actions/ca/CA15203)
Role: Investigator.

COST Action: BM1402, 01/12/2014 – 30/11/2018 Project: “Development of a European network for preclinical testing of interventions in mouse models of age and age-related diseases (MouseAGE)”
(www.mouseage.eu)
Role: Investigator

COST Action: BM1105, 01/04/2012 – 31/03/2016 Project: “GnRH network – Neuroendocrine Control of Reproduction”.
(<https://www.chuv.ch/en/hhn/hhn-home/neuroendocrine-control-of-reproduction>)
Role: MC for basic science from Serbia.

Completed Education Grants

627-777E6E	Andric S (PI)	01/09/2016 – 31/08/2018
Institute for the Advancement of Education		
Project: <i>"Reproductive growth and aging"</i>		
627-777E6E	Andric S (PI)	01/09/2016 – 31/08/2018
Institute for the Advancement of Education		
Project: <i>"Contemporary achievements and methods in human physiology"</i>		
WUS-C.D.P+ -SE118-2006	Andric S (PI)	01/07/2006 – 31/06/2007
World University Service Austria <i>"Support to Higher Education in Serbia and Montenegro in 2005/2007"</i> (Project No: 8093-01-2005)		
Project: <i>"Module: Molecules and Cells in Health and Disease: Molecular and Cellular Immunology; Mechanisms of Cell Signaling"</i>		

PUBLICATIONS

77 peer-reviewed publications (1596 hetero-citation; h-index 24 (SCOPUS))

- Pavlovic MV, Marinkovic DZ, **Andric SA** & Kostic TS (2022): The cost of the circadian desynchrony on the Leydig cell function. *Sci Rep* 12(1):15520. (**M21, IF-5.516**)
- Medar MLJ, **Andric SA** & Kostic TS (2022): Stress alters the transcriptional activity of Leydig cells dependently on the diurnal time. *Am J Physiol Cell Physiol* 323 (2):C322-C332. (**M21, IF-5.282**)
- Starovlah IM, Radovic Pletikosic SM, Tomanic TM, Medar MLJ, Kostic TS & **Andric SA** (2022): Spermatozoa develop molecular machinery to recover from the acute stress. *Front Endo* <https://doi.org/10.3389/fendo.2022.896193> . (**M21, IF-6.335**)
- Starovlah IM, Radovic Pletikosic SM, Tomanic TM, Medar MLJ, Kostic TS & **Andric SA** (2022): *Spermatozoal mitochondrial dynamics markers and other functionality-related signaling molecules exert circadian-like response to repeated stress of whole organism*. *Cells* 11(6):993. (**M21a, IF-7.677**)
- Medar MLJ, **Andric SA** & Kostic TS (2021): Stress-induced glucocorticoids alter the Leydig cells' timing and steroidogenesis-related systems. *Mol Cell Endocrinol* 538:111469. (**M21, IF-4.467**)
- Starovlah IM, Radovic Pletikosic SM, Kostic TS & **Andric SA** (2021): *Mitochondrial dynamics markers and related signaling molecules are important regulators of spermatozoa number and functionality*. *Int J Mol Sci* 22(11):5693. (**M21a, IF-6.628**)
- Radovic Pletikosic SM, Starovlah IM, Miljkovic D, Bajic DM, Capo I, Nef S, Kostic TS & **Andric SA** (2021): Deficiency in insulin-like growth factors signaling in mouse Leydig cells increase conversion of testosterone to estradiol due to feminization. *Acta Physiol (Oxf)* 231(3):e13563. doi: 10.1111/apha.13563. (**M21a, IF-7.523**)
- *Editorial about the article (*The Insulin/Insulin-like Growth Factor signalling connects metabolism with sexual differentiation*) is available on <https://onlinelibrary.wiley.com/doi/10.1111/apha.13576>
- Marinkovic DZ, Medar MLJ, **Andric SA** & Kostic TS (2021): Growing up under constant light: a challenge to the endocrine function of the Leydig cells. *Front Endo* 12:653602. doi: 10.3389/fendo.2021.653602. (**M21, IF-6.335**)
- Sokanovic SJ, Baburski AZ, Kojic Z, Medar MLJ, **Andric SA** & Kostic TS (2021): Aging-related increase of cGMP disrupts mitochondrial homeostasis in Leydig cells. *J Gerontol A Biol Sci Med Sci* 76(2):177-186. (**M21a, IF-6.735**)
- Medar MLJ, Marinkovic DZ, Kojic Z, Becin AP, Starovlah IM, Kravic-Stevovic T, **Andric SA** & Kostic TS (2020): Dependence of Leydig cell's mitochondrial physiology on luteinizing hormone signaling. *Life* 11(1):19. (**M21, IF-3.817**)
- Starovlah IM, Radovic SM, Kostic TS & **Andric SA** (2020): Reduced spermatozoa functionality during stress is the consequence of adrenergic-mediated disturbance of mitochondrial dynamics markers. *Sci Rep* 10 (1):16813. (**M21, IF-5.516**)
- Andric SA** & Kostic TS (2019): Regulation of Leydig cell steroidogenesis: intriguing network of signaling pathways and mitochondrial signalosome. *Current Opp Endo Metab Res* 6:7-20. *Review*.
- Baburski AZ, **Andric SA** & Kostic TS (2019): Luteinizing hormone signaling is involved in synchronization of Leydig cell clock and is crucial for rhythm robustness of testosterone production. *Biol Reprod* 100 (5):1406-1415. (**M21, IF-3.583**)
- Radovic SM, Starovlah IM, Capo I, Miljkovic D, Nef S, Kostic TS & **Andric SA** (2019): Insulin/IGF1 signalling regulates the mitochondrial biogenesis markers in steroidogenic cells of prepubertal testis, but not ovary. *Biol Reprod* 100(1):253-267. (**M21, IF-3.583**)
- Sokanovic SJ, Capo I, Medar MM, **Andric SA** & Kostic TS (2018): Long-term inhibition of PDE5 ameliorates aging-induced changes in rat testis. *Exp Gerontol* 108:139-148. (**M21, IF-3.533**)

- Neirijnck Y, Calvel P, Kilcoyne KR, Kühne F, Stévant I, Griffeth RJ, Pitetti JL, **Andric SA**, Hu MC, Pralong F, Smith LB & Nef S (2018): Insulin and IGF1 receptors are essential for the development and steroidogenic function of adult Leydig cells. *FASEB J* 32(6):3321-3335. (**M21a**, **IF-5.595**)
- Starovlah IM, Radovic SM, Marinovic MA, Kostic TS & **Andric SA** (2017): Psychophysical stress disturbs expression of mitochondrial biogenesis markers in hypothalamus and adenohipophysis. *Biol Serb* 39 (2): 43-51. (**M52**)
- Kaisarevic SN, **Andric SA** & Kostic TS (2017): Teaching Animal Physiology: a 12-year experience transitioning from a classical to interactive approach with continual assessment and computer alternatives. *Adv Physiol Educ* 41:405-414. (**M21**, **IF-2.851**)
- Baburski AZ, Medar MLJ, **Andric SA** & Kostic TS (2017): Circadian rhythm patterns of NO-cGMP signaling are moderately synchronized by melatonin in testosterone-producing Leydig cells. *Biol Serb* 39 (1):17-24. (**M52**)
- Baburski AZ, Sokanovic SJ, **Andric SA** & Kostic TS (2017): Aging has the opposite effect on cAMP and cGMP circadian variations in rat Leydig cells. *J Comp Physiol B* 187:613-623. (**M21a**, **IF-2.689**)
- Baburski AZ, Sokanovic SJ, Radovic SM, Bjelic MM, **Andric SA** & Kostic TS (2016): Circadian rhythm of the Leydig cells endocrine function is attenuated during aging. *Exp Gerontol* 73:5-13. (**M21**, **IF-3.802**)
- Gak IA*, Radovic SM*, Dukic AR, Janjic MM, Stojkov-Mimic NJ, Kostic TS & **Andric SA** (2015): Stress stimulates mitochondrial biogenesis to preserve steroidogenesis in Leydig cells of adult rats. *BBA Mol Cell Res* 1853: 2217-2257. (**M21**, **IF-5.374**)
- Baburski AZ, Sokanovic SJ, Janjic MM, Stojkov NJ, Bjelic MM, **Andric SA** & Kostic TS (2015): Melatonin replacement restores the circadian behavior in adult rat Leydig cells after pinealectomy. *Mol Cell Endo* 413: 26-35. (**M21**, **IF-4.241**)
- Stojkov-Mimic NJ, Bjelic MM, Radovic SM, Mihajlovic AI, Sokanovic SJ, Baburski AZ, Janjic MM, Kostic TS & **Andric SA** (2015): Intratesticular alpha1-adrenergic receptors mediate stress-disturbed transcription of steroidogenic stimulator NUR77 as well as steroidogenic repressors DAX1 and ARR19 in Leydig cells of adult rats. *Mol Cell Endo* 412: 309-319. (**M21**, **IF-4.241**)
- Bjelic MM, Stojkov NJ, Radovic SM, Baburski AZ, Janjic MM, Kostic TS & **Andric SA** (2015): Prolonged *in vivo* administration of Testosterone-enanthate, the widely used and abused anabolic androgenic steroid, disturbs prolactin and cAMP signaling in Leydig cells of adult rats. *J Steroid Biochem Mol Biol* 149: 58-69. (**M21**, **IF-4.561**)
- Bjelic MM, Stojkov NJ, Mihajlovic AI, Baburski AZ, Sokanovic SJ Janjic MM, Kostic TS & **Andric SA** (2014): Molecular adaptations of testosterone-producing Leydig cells during systemic *in vivo* blockade of the androgen receptor. *Mol Cell Endo* 396 (1-2): 10-25. (**M21**, **IF-4.405**)
- Sokanovic SJ, Janjic MM, Stojkov NJ, Baburski AZ, Bjelic MM, **Andric SA** & Kostic TS (2014): Age-related changes in cAMP and MAPK signaling in Leydig cells of Wistar rats. *Exp Gerontol* 58: 19-29. (**M21**, **IF-3.911**)
- Stojkov NJ, Baburski AZ, Bjelic MM, Sokanovic SJ, Mihajlovic AI, Drljaca DM, Janjic MM, Kostic TS & **Andric SA** (2014): *In vivo* blockade of alpha1-adrenergic receptors mitigates stress-disturbed cAMP & cGMP signaling in Leydig cells. *Mol Hum Reprod* 20 (1):77-88. (**M21a**, **IF-4.542**)
- Stojkov NJ, Janjic MM, Kostic TS & **Andric SA** (2013): *In vitro* blockade of α 1-adrenergic receptors (α 1-ADRs) affects testosterone production in Leydig cells of adult rats. *Biol Serb* 35 (1-2):48-56. (**M52**)
- Sokanovic SJ, Baburski AZ, Janjic MM, Stojkov NJ, Bjelic MM, Lalošević D, **Andric SA**, Stojilkovic SS & Kostic TS (2013): The opposing roles of nitric oxide and cGMP in the age-associated decline in rat testicular steroidogenesis. *Endocrinology* 154(10): 3914-3924. (**M21**, **IF-4.866**)
- Stojkov NJ, Baburski AZ, Janjic MM, Bjelic MM, Mihajlovic AI, Drljaca DM, Sokanovic SJ, Kostic TS & **Andric SA** (2013) Sustained *in vivo* blockade alpha1-adrenergic receptors prevented some of stress-triggered effects on steroidogenic machinery in Leydig cells. *Am J Physiol Endocrinol Metab* 305 (2): E194-E204. (**M21a**, **IF-5.037**)

Stojkov NJ, Janjic MM, Kostic TS & **Andric SA** (2013): Orally applied Doxazosin disturbed testosterone homeostasis and changed the transcriptional profile of steroidogenic machinery, cAMP/cGMP signaling and adrenergic receptors in Leydig cells of adult rats. *Andrology* 1 (2): 332-347. (**M22, IF-2.515**)

Andric SA, Kojic Z, Bjelic MM, Mihajlovic AI, Baburski AZ, Sokanovic SJ, Janjic MM, Stojkov NJ, Stojilkovic SS & Kostic TS (2013): The opposite role of glucocorticoid and alpha1-adrenergic receptors in stress-triggered apoptosis of Leydig cells. *Am J Physiol Endocrinol Metab* 304 (1): E51-E59. (**M21a, IF-5.037**)

Andric SA, Janjic MM, Stojkov NJ & Kostic TS (2012): NO-cGMP signaling increases the mitochondrial membrane potential and affects androgenesis in Leydig cells. *Biol Serb* 34 (1): 12-16. (**M52**)

Janjic MM, Stojkov NJ, **Andric SA** & Kostic TS (2012): Anabolic-androgenic steroids induce apoptosis and NOS2 (nitric oxide synthase 2) in adult rat Leydig cells following *in vivo* exposure. *Reprod Toxicol* 34(4):686-693. (**M21, IF-3.940**)

Janjic MM, Stojkov NJ, Bjelic MM, Mihajlovic AI, **Andric SA** & Kostic TS (2012): Transient rise of serum testosterone level after single sildenafil treatment of adult male rats *J Sex Med* 10 (9): 2534-2543. (**M21, IF-3.957**)

Stojkov NJ, Janjic MM, Bjelic MM, Mihajlovic AI, Kostic TS & **Andric SA** (2012): Repeated immobilization stress disturbed steroidogenic machinery & stimulated the expression of cAMP signaling elements & adrenergic receptors in Leydig cells. *Am J Physiol Endocrinol Metab* 302(10): E1239-E1251. (**M21a, IF-5.037**)

Kostic TS, Stojkov NJ, Bjelic MM, Mihajlovic AI, Janjic MM & **Andric SA** (2011): Pharmacological doses of testosterone up-regulated androgen receptor (AR) and 3-beta-hydroxysteroid dehydrogenase/delta-5-delta-4 isomerase (3bHSD) and impaired Leydig cells steroidogenesis in adult rat. *Toxicol Sci* 121(2): 397-407. (**M21a, IF-5.093**)

Andric SA, Janjic MM, Stojkov NJ & Kostic TS (2010): Sildenafil treatment *in vivo* stimulates Leydig cell steroidogenesis via cAMP and cGMP signaling pathway. *Am J Physiol Endocrinol Metab* 299(4): E544-E450. (**M21a, IF-4.828**)

Andric SA, Janjic MM, Stojkov NJ & Kostic TS (2010): Testosterone-induced modulation of Nitric Oxide-cGMP signaling pathway and androgenesis in the rat Leydig cells. *Biol Reprod* 83(3): 434-442. (**M21, IF-4.139**)

Kostic TS, Stojkov NJ, Janjic MM & **Andric SA** (2010): Structural complexity of the testis and PKG-I/StAR interaction regulate the Leydig cell adaptive response to repeated immobilization stress. *Int J Androl* 33(5): 717-729. (**M21, IF-4.021**)

Stojilkovic SS, Murano T, Gonzalez-Iglesias AE, **Andric SA**, Popovic MA, Van Goor F & Tomic M (2009): Multiple roles of Gi/o protein-coupled receptors in control of action potential secretion coupling in pituitary lactotrophs. *Ann N Y Acad Sci* 1152: 174-186. Review. (**M21a, IF-2.997**)

Kostic TS, Stojkov NJ, Janjic MM, Maric D & **Andric SA** (2008): The adaptive response of adult rat Leydig cells to repeated immobilization stress: Role of PKA and StAR protein. *Stress* 11(5): 370-380. (**M21, IF-3.200**)

Cokic VP, **Andric SA**, Stojilkovic SS, Noguchi CT & Schechter AN (2008): Hydroxyurea nitrosylates and activates soluble guanyll cycles in human erythroid cells. *Blood* 111 (3): 1117-1123. (**M21a, IF-10.896**)

Djurendic EA, Sakac MN, Zavis M, Gakovic AR, Canadi JJ, **Andric SA**, Klisuric OR, Kojic VV, Bogdanovic GM & Gasi KM (2008): Synthesis and biological evaluation of some new A,B-ring modified steroidal D-lactones. *Steroids* 73 (6): 681-688. (**M22, IF-2.905**)

Djurendic EA, Daljev JJ, Sakac MN, Canadi J, Santa SJ, **Andric S**, Klisuric O, Kojic V, Bogdanovic G, Djurendic-Brenesel M, Novakovic S, Gasi KP (2008): Synthesis of some epoxy and/or N-oxy 17-picoly and 17-picolinylidene-androst-5-ene derivatives and evaluation of their biological activity. *Steroids* 73 (1): 129-138. (**M22, IF-2.905**)

Andric SA, Janjic MM, Stojkov NJ & Kostic TS (2007): Protein kinase G – mediated stimulation of basal Leydig cell steroidogenesis. *Am J Physiol Endocrinol Metab* 293 (5): E1399-E1408. (**M21a, IF-4.456**)

- Sakac MN, Penov-Gasi KM, Djurendic EA, **Andric S**, & Miljkovic DA (2007): Synthesis and biological evaluation 17-[4-(2-aminoethoxy)phenyl]-16,17-secoestra-1,3,5(10)-triene derivatives. *Coll Czech Chem Comm* 72 (3): 403-410. (**M22, IF-0.949**)
- Gasi KM, Brenesel MDj, Djurendic EA, Sakac MN, Canadi JJ, Daljev JJ, Armbruster T, **Andric S**, Sladic DM, Bozic TT, Novakovic IT, Juranic ZD (2007): Synthesis, X-ray crystal structures and biological activity of 16-amino-17-substituted-D-homosteroid derivatives. *Steroids* 72 (1): 31-40. (**M22, IF-2.905**)
- Gonzalez-Iglesias AE, Jiang Y, Tomic M, Kretschmannova K, **Andric SA**, Zemkova H & Stojilkovic SS (2006): Dependence of electrical activity and Ca^{2+} influx-controlled prolactin release on adenylyl cyclase signaling pathway in pituitary lactotrophs. *Mol Endocrinol* 20 (9): 2231-2246. (**M21a, IF-5.872**)
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